Tra	de and Industrial Education	School Ye	ear		Student:		Grade:
	ırse: Principles of Welding		-		Teacher: Scho	ool:	
	urse Code # 5786	Term:	Fall	_Spring	Number of Competencies in Co	urse: 30	
2 C	redits				Number of Competencies Maste		
					Percent of Competencies Maste		
					Toront of Competences Waste		
STAN	DARD 1.0: Students will demonstrate lea	dership, citizenshi	ip and tea	ımwork skills	required for success in the school,	community, and	d workplace.
Learnin	ng Expectations	•	Check th	e appropriate	Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1.	Exhibit positive leadership skills.						
1.2.	Participate in SkillsUSA-VICA as an inte	gral part of classro	om instru	ction.			
1.3.	Assess situations and apply problem-solv and workplace.	ing and decision-m	aking skil	ls to particula	r client relations in the community,		
1.4.	Demonstrate the ability to work cooperate	vely with others in	a profess	ional setting.			
welded	DARD 2.0: Students will read, comprehe l assemblies.	nd, and communic					
Learnin	ng Expectations		Check th	e appropriate	Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1.	Demonstrate mathematical skills related t						
2.2.	Read and demonstrate understanding of the <i>Terms and Definition</i> .	ne welding terms ar	nd definiti	ons from AN	SI/AWS A3.0, Standard Welding		
2.3.	Complete a job assignment, given verbal						
2.4.	Complete a job assignment, given written	work assignments.	•				
STANI	DARD 3.0: Students will relate the prope	rties of metals to v	weldment	s and the wel	ding processes.		
Learnir	ng Expectations		Check th	e appropriate	Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Evaluate the mechanical properties of me	tals and their impor	rtance in v	velding proce	sses.		
3.2	Analyze the thermal properties of metals						
STAN	DARD 4.0: Students will interpret drawi	ngs and welding sy	ymbol inf	ormation.		•	•
	ng Expectations				Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Read and sketch drawings.						
4.2	Identify basic weld symbols.						
4.3	Identify lines and joints.						
4.4	Differentiate between drawings and bluep	rints.					

STANDARD 5.0: Students will safely store, operate, and maintain welding equipment and accessories.

Learni	g Expectations Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Implement and comply with ANSI Z49.1, Safety and Welding, Cutting, and Allied Processes and Occupational Safety and		
	Health Administration (OSHA) requirements for operating each piece of equipment.		
5.2	Demonstrate required safety practices while operating all equipment and tools.		
5.3	Exhibit acceptable dress and personal grooming as identified by the welding industry.		
5.4	Demonstrate the use of basic metal working and welding equipment.		
5.5	Evaluate the importance and use of ventilation.		
5.6	Properly handle welding gas cylinders.		
5.7	Pass with 100 % accuracy a written examination relating to safety issues.		
5.8	Pass with 100% accuracy a performance examination relating to safety.		
5.9	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed		
	an operational checkout by the instructor.		

STANDARD 6.0: Students will perform oxyfuel-cutting operations.

Learnir	ng Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Prepare layouts for cutting individual parts.			
6.2	Perform cuts using oxyfuel gas-cutting process.			
6.3	Use weld-washing techniques.			

STANDARD 7.0: Students will make single-and multiple-pass fillet and groove welds using a shielded, metal arc welding (SMAW) process.

Learnir	g Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Make single-and multiple-pass fillet and groove welds in t	he flat position.		
7.2	Make single-and multiple-pass fillet and groove welds in t	he horizontal position.		
7.3	Make single-and multiple-pass fillet and groove in the vert	tical position.		
7.4	Make single-and multiple-pass fillet and groove welds in t	he overhead position.		

Additional Comments
